

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 1 1-20. (Canceled).
- 1 21. (New) A controller for a DC motor, the controller comprising:
2 a magnetic field sensing device that provides an output signal based upon an
3 imposed magnetic field from a rotor magnet of the DC motor;
4 a drive circuit, coupled with the sensing device, and having first and second
5 terminals connected with a voltage supply through first and second motor coils, respectively, and
6 a ground terminal connected with ground; and
7 a voltage regulator, coupled to the sensing device and the drive circuit, for
8 supplying a stabilized voltage to the sensing device;
9 wherein the drive circuit operates to provide a voltage to the voltage regulator
10 from the first and second terminals.
- 1 22. (New) The controller of claim 21, wherein the voltage is provided to the
2 voltage regulator through each of the first and second terminals in anti-phase when the voltage at
3 the respective terminal is high.
- 1 23. (New) The controller of claim 21, wherein the drive circuit includes an
2 inverter coupled with one of said first and second terminals.
- 1 24. (New) The controller of claim 21, wherein the drive circuit includes a pair
2 of transistors, each coupled to one of said first and second terminals.
- 1 25. (New) The controller of claim 24, wherein the voltage is provided to the
2 voltage regulator from the voltage supply through each of the first and second terminals when
3 the corresponding transistor is in an off state.

1 26. (New) The controller of claim 25, wherein the transistor is set to an off
2 state based on a state of the output signal.

1 27. (New) The controller of claim 21, wherein the voltage regulator supplies a
2 stabilized voltage to the drive circuit and wherein the drive circuit operates to drive the DC
3 motor.

1 28. (New) The controller of claim 21, wherein the drive circuit further
2 includes a switching circuit configured to electrically couple the voltage regulator with each
3 voltage terminal in anti-phase when the voltage at the respective voltage terminal is high.

1 29. (New) A controller for a DC motor, the controller comprising:
2 a magnetic field sensing device that provides an output signal based upon an
3 imposed magnetic field from a rotor magnet of the DC motor;
4 a drive circuit, coupled with the sensing device, and having a ground terminal
5 connected with ground, a first transistor coupled to a first terminal, and a second transistor
6 coupled to a second terminal, wherein each of said first and second terminals is coupled to a
7 voltage supply through a separate motor coil; and
8 a voltage regulator coupled to the sensing device and the drive circuit, for
9 supplying a stabilized voltage to the sensing device;
10 wherein the drive circuit operates to provide a voltage to the voltage regulator
11 from the first and second terminals.

1 30. (New) The controller of claim 29, wherein the voltage is alternately
2 provided to the voltage regulator through each of the first and second terminals when the
3 corresponding transistor is in an off state.

1 31. (New) The controller of claim 30, wherein each transistor is set to an off
2 state based on a state of the output signal.

1 32. (New) The controller of claim 30, wherein the drive circuit further
2 includes a switching circuit configured to alternately couple the voltage regulator with each of
3 the first and second terminals when the corresponding transistor is in the off state.

1 33. (New) The controller of claim 29, wherein the controller is a package
2 having only three external connection terminals.

1 34. (New) The controller of claim 29, wherein the drive circuit includes an
2 inverter coupled with one of said transistors.